

CLAIMS

What is Claimed is:

1. In a system serially including a compressor, a discharge line, a condenser, an expansion device, an evaporator and a suction line, means for achieving capacity control comprising:

a solenoid valve in said suction line;  
means for rapidly pulsing said solenoid valve whereby the rate of flow in said suction line to said compressor is modulated.

2. The capacity control of claim 1 further including a fluid path connected to said compressor at a location corresponding to an intermediate point of compression in said compressor.

3. The capacity control of claim 2 further including:  
a bypass line connected to said fluid path and said suction line;  
a solenoid valve in said bypass line;  
means for rapidly pulsing said solenoid valve in said bypass line whereby the rate of flow of bypass to said suction line is modulated.

4. The capacity control of claim 3 further including;  
an economizer circuit connected to said fluid path;  
a solenoid valve in said economizer circuit; and  
means for rapidly pulsing said solenoid valve in said economizer circuit whereby the rate of economizer flow to said compressor is modulated.

5. The capacity control of claim 2 further including;  
an economizer circuit connected to said fluid path;

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3 a solenoid valve in said economizer circuit; and  
4 means for rapidly pulsing said solenoid valve in said economizer  
5 circuit whereby the rate of economizer flow to said compressor is modulated.

1 6. In a system serially including a compressor, a discharge line, a  
2 condenser, an expansion device, an evaporator and a suction line, means for achieving  
3 capacity control comprising:

4 a fluid path connected to said compressor at a location corresponding  
5 to an intermediate point of compression in said compressor;  
6 a bypass line connected to said fluid path and said suction line;  
7 a solenoid valve in said bypass line;  
8 means for rapidly pulsing said solenoid valve in said bypass line  
9 whereby the rate of flow of bypass to said suction line is modulated.

1 7. The capacity control of claim 6 further including;  
2 an economizer circuit connected to said fluid path;  
3 a solenoid valve in said economizer circuit; and  
4 means for rapidly pulsing said solenoid valve in said economizer  
5 circuit whereby the rate of economizer flow to said compressor is modulated.

1 8. In a system serially including a compressor, a discharge line, a  
2 condenser, an expansion device, an evaporator and a suction line, means for achieving  
3 capacity control comprising:

4 a fluid path connected to said compressor at a location corresponding  
5 to an intermediate point of compression in said compressor;  
6 an economizer circuit connected to said fluid path;  
7 a solenoid valve in said economizer circuit; and

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- 8 means for rapidly pulsing said solenoid valve in said economizer
- 9 circuit whereby the rate of economizer flow to said compressor is modulated.

7 add A<sup>3</sup>

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